

Omar Mohamed Ghamry

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New Cairo, Cairo

SUMMARY

- Highly motivated Computer Science Fresh Graduate from Future University in Egypt (FUE) with a proven track record in programming, data analysis, and machine learning. Possesses strong certifications including data analysis with Python and AI applications.
- Skilled in developing data cleaning pipelines, predictive models, and Learning Algorithms applications. Demonstrates excellent problem-solving abilities, project management skills, and a collaborative mindset.

EDUCATION

Future University in Egypt (FUE)

Bachelor of Science in Computer Science, GPA: 3.68 (Very Good "A-")

New Cairo, Egypt

Sep 2021 – Sep 2025

COURSES & CERTIFICATIONS

- Supervised Machine Learning: Regression and Classification** – Stanford University (Coursera) – Issued Nov 2024
- Advanced Learning Algorithms** – Stanford University (Coursera) – Issued Mar 2025
- Unsupervised Learning, Recommenders, Reinforcement Learning** – Stanford University (Coursera) – Issued July 2025
- Data Analysis with Python** – IBM (Coursera) – Issued Nov 2023
- AI and its Application "Summer Training"** – IMPACT (Zewail City Certificate) – Issued Aug 2024
- AI and its Application** – The International Accredited Institution (IAO) – Issued Nov 2023

SKILLS

Technical Skills: Python, C++, Java, SQL, C# (ASP.NET); Data Analysis: pandas, NumPy, Matplotlib, seaborn; Machine Learning: scikit-learn, TensorFlow; Linux commands (Intermediate); Strong foundation in Data Structures, Algorithms, and OOP.
Soft Skills: Communication, Teamwork, Adaptability, Time Management, Project Management, Problem-Solving

PROJECTS

Autonomous Service Robotics (Graduation Project) | Python, ROS2, TensorFlow, React Native, OpenCV, MediaPipe, Whisper

- Designed and developed a service robot to support individuals with disabilities by recognizing American Sign Language (ASL) using a WLASL-based Pose-TGCN model.
- Integrated natural language models (Seq2Seq, GPT-3.5, Gemma) for intelligent response generation.
- Implemented autonomous navigation using ROS2 and SLAM for real-time mapping and movement.
- Built a multimodal communication interface using React Native and Whisper for speech-text interaction.
- Awarded grade A for innovation, technical execution, and societal impact.

"TechBuddy" Chatbot | Python, Flask, HTML/CSS/JS, OpenAI API

2024

- Developed a chatbot that answers users' queries about tech topics using OpenAI's GPT-3.5 Turbo API.
- Built user interface with HTML/CSS/JS and Flask backend for full-stack functionality.
- GitHub: github.com/R2Vve/TechBuddy-Chatbot

House Sales Prediction Model | Python, scikit-learn

2024

- Built a machine learning model to forecast house sales prices, achieving R^2 score of 70%.
- Performed data preprocessing, feature engineering, and hyperparameter tuning.

Sign Language Recognition for ASL | Python, MediaPipe, OpenCV

2024

- Developed a real-time computer vision system to detect and classify ASL alphabet using hand landmarks.
- Used MediaPipe for hand tracking and OpenCV for video processing.

Data Cleaning Pipeline | Python, pandas, NumPy

2023

- Designed a data preprocessing pipeline to automate handling of missing, duplicate, and inconsistent data.
- Improved data quality and workflow efficiency in analytics projects.

LANGUAGES

Arabic: Native

English: C1 (Advanced)